

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---------------------------|------------------|---------|---------------------|
| S1 | 1 | "10551147" | US-PGPUB; USPAT | OR | ON | 2009/02/09 14:54 |
| S2 | 10 | ((("0655546") or ("3655546") or ("3576730") or ("4370206") or ("5331310") or ("5522979") or ("5537446") or ("6073478")).PN. | USPAT; USOCR | OR | OFF | 2009/02/09 15:19 |
| S3 | 207 | ((ROBERT) near2 (GRANT)).INV. | US-PGPUB; USPAT | OR | ON | 2009/02/09 15:53 |
| S4 | 52 | ((PATRICK) near2 (DAVIS)).INV. | US-PGPUB; USPAT | OR | ON | 2009/02/09 15:53 |
| S5 | 2 | ((CAROLYN) near2 (HUGHES)).INV. | US-PGPUB; USPAT | OR | ON | 2009/02/09 15:54 |
| S6 | 20 | ("3071530" "3278408" "3410778" "3503861" "3509034").PN. OR ("3655546").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/10 08:26 |
| S7 | 10 | ((("0655546") or ("3655546") or ("3576730") or ("4370206") or ("5331310") or ("5522979") or ("5537446") or ("6073478")).PN. | USPAT; USOCR | OR | OFF | 2009/02/10 09:03 |
| S8 | 1 | S7 and vacuum | US-PGPUB; USPAT | OR | ON | 2009/02/10 09:03 |
| S9 | 2402 | electrochemical and "solid electrolyte" and vacuum and oxygen | US-PGPUB; USPAT | OR | ON | 2009/02/10 09:04 |
| S10 | 633 | electrochemical and "solid electrolyte" and vacuum and oxygen and semiconductor | US-PGPUB; USPAT | OR | ON | 2009/02/10 09:05 |
| S11 | 348 | electrochemical and "solid electrolyte" and vacuum and oxygen and semiconductor and (sensor or detector) | US-PGPUB; USPAT | OR | ON | 2009/02/10 09:09 |
| S12 | 116 | electrochemical and "solid electrolyte" and vacuum and oxygen and semiconductor and (sensor or detector) same gas | US-PGPUB; USPAT | OR | ON | 2009/02/10 09:14 |
| S13 | 1061 | ("THE BOC GROUP").as. | US-PGPUB; USPAT | OR | ON | 2009/02/10 09:55 |
| S14 | 16 | ("THE BOC GROUP").as. and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/10 09:55 |
| S15 | 12 | "4744954" | US-PGPUB; USPAT | OR | ON | 2009/02/10 10:01 |
| S16 | 2483 | 204/421-429.cds. | US-PGPUB; USPAT | OR | ON | 2009/02/10 10:27 |

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|-----|--------|--|--------------------|----|----|---------------------|
| S17 | 1704 | 204/421-429.cds. and "solid electrolyte" | US-PGPUB; USPAT | OR | ON | 2009/02/10 10:27 |
| S18 | 230 | 204/421-429.cds. and "solid electrolyte" and (vacuum or "sub\$1atmospheric pressure") | US-PGPUB; USPAT | OR | ON | 2009/02/10 10:29 |
| S19 | 920910 | ion gauges | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:10 |
| S20 | 535 | "ion gauge" | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:10 |
| S21 | 103679 | "ion gauge" electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:11 |
| S22 | 38 | "ion gauge" and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:11 |
| S23 | 165 | "ion gauge" and sensor | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:12 |
| S24 | 8106 | sensor with sensitivity and (vacuum or (below with normal near pressure)) | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:18 |
| S25 | 4231 | sensor with sensitivity and (vacuum or (below with normal near pressure)) and detect\$3 and (oxygen or hydrocarbon or (water or "h.2.o")) | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:19 |
| S26 | 0 | sensor with sensitivity and (vacuum or (below with normal near pressure)) and detect\$3 and (oxygen or hydrocarbon or (water or "h.2.o")) and "semiconductor manufactur\$3" | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:20 |
| S27 | 0 | sensor with sensitivity and (vacuum or (below with normal near pressure)) and detect\$3 and (oxygen or hydrocarbon or (water or "h.2.o")) and "semiconductor manufactur" | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:20 |
| S28 | 214 | sensor with sensitivity and (vacuum or (below with normal near pressure)) and detect\$3 and (oxygen or hydrocarbon or (water or "h.2.o")) and semiconductor adj manufactur \$3 | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:20 |
| S29 | 207 | (Robert NEAR2 Grant).inv. | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:31 |
| S30 | 6 | (Robert NEAR2 Grant).inv. and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:31 |
| S31 | 6961 | (Robert Bruce Grant).inv. and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:32 |
| S32 | 0 | ("Robert Bruce Grant").inv. | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:32 |
| S33 | 0 | (Robert adj Bruce adj Grant). inv. | US-PGPUB; USPAT | OR | ON | 2009/02/10 11:32 |

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| S34 | 20 | ("3071530" "3278408" "3410778" "3503861" "3509034").PN. OR ("3655546").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/10 14:06 |
| S35 | 937 | ("Beckman Instruments").as. | US-PGPUB; USPAT | OR | ON | 2009/02/10 14:08 |
| S36 | 57 | ("Beckman Instruments").as. and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/10 14:08 |
| S37 | 0 | 204/195.cds. | US-PGPUB; USPAT | OR | ON | 2009/02/10 14:10 |
| S38 | 2 | ("3071530").PN. | USPAT; USOCR | OR | OFF | 2009/02/10 14:10 |
| S39 | 4 | ((("3071530" or ("3509034"))). PN. | USPAT; USOCR | OR | OFF | 2009/02/10 14:11 |
| S40 | 0 | polagraphy and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/10 14:38 |
| S41 | 20 | "3576730" | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/10 14:39 |
| S42 | 31 | Ag and electrolyte | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/10 15:14 |
| S43 | 9 | AgCl and electrolyte | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/10 15:18 |
| S44 | 0 | AgCl and solid adj electrolyte | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/10 15:18 |
| S45 | 0 | AgCl and "solid electrolyte" | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/10 15:18 |
| S46 | 287 | AgCl and "solid electrolyte" | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/10 15:19 |
| S47 | 26 | AgCl with "solid electrolyte" | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/10 15:19 |
| S48 | 17 | AgCl with "solid electrolyte" and gas | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/10 15:24 |
| S49 | 10 | AgCl with "solid electrolyte" and gas and (sensor or detector) | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/10 15:24 |
| S50 | 394 | 204/421-429.cds. and "solid electrolyte" and (Ag or silver) | US-PGPUB; USPAT | OR | ON | 2009/02/10 16:27 |
| S51 | 24 | 204/421-429.cds. and "solid electrolyte" and ((Ag or silver) adj ion) | US-PGPUB; USPAT | OR | ON | 2009/02/10 16:28 |
| S52 | 571 | 205/775.cds. | US-PGPUB; USPAT | OR | ON | 2009/02/11 13:38 |
| S53 | 25 | "5650054" | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:14 |
| S54 | 11 | "5827415" | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:22 |
| S55 | 345 | kennard.in. | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:28 |
| S56 | 12 | kennard.in. and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:28 |

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| S57 | 27550 | gas and (measur\$4 or sens\$3 or detect\$3) with vacuum | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:31 |
| S58 | 1785 | gas and (measur\$4 or sens\$3 or detect\$3) with vacuum and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:32 |
| S59 | 1366 | gas and (measur\$4 or sens\$3 or detect\$3) with vacuum and electrochemical and electrode | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:32 |
| S60 | 134729 | gas and (measur\$4 or sens\$3 or detect\$3) with vacuum and electrochemical and electrode and solid electrolyte | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:32 |
| S61 | 108 | gas and (measur\$4 or sens\$3 or detect\$3) with vacuum and electrochemical and electrode and "solid electrolyte" | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:33 |
| S62 | 637 | gas and (measur\$4 or sens\$3 or detect\$3) with vacuum and electrochemical and electrode and electrolyte | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:41 |
| S63 | 256 | gas with vacuum and (measur\$4 or sens\$3 or detect\$3) with vacuum and electrochemical and electrode and electrolyte | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:41 |
| S64 | 256 | (gas with vacuum) and (measur\$4 or sens\$3 or detect\$3) with vacuum and electrochemical and electrode and electrolyte | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:43 |
| S65 | 0 | (gas with "in a vacuum") and (measur\$4 or sens\$3 or detect\$3) with vacuum and electrochemical and electrode and electrolyte | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:47 |
| S66 | 0 | (gas with "in a vacuum") and ((measur\$4 or sens\$3 or detect\$3) with vacuum) and electrochemical and electrode and electrolyte | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:47 |
| S67 | 637 | gas and (measur\$4 or sens\$3 or detect\$3) with vacuum) and electrochemical and electrode and electrolyte | US-PGPUB; USPAT | OR | ON | 2009/02/11 15:47 |
| S68 | 1809 | gas and ((measur\$4 or sens\$3 or detect\$3) with vacuum) and electrochemical | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2009/02/11 15:48 |
| S69 | 24 | gas and ((measur\$4 or sens\$3 or detect\$3) with vacuum) and electrochemical | EPO; JPO; DERWENT | OR | ON | 2009/02/11 15:48 |
| S70 | 3588 | you.in. | US-PGPUB; USPAT | OR | ON | 2009/02/11 16:24 |
| S71 | 119 | you.in. and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/11 16:24 |
| S72 | 377 | 204/408.cxls. | US-PGPUB; USPAT | OR | ON | 2009/02/12 07:58 |

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| S73 | 227 | 204/408.ccls. and gas SAME (sens\$3 or measur\$3 or detect \$3) | US-PGPUB; USPAT | OR | ON | 2009/02/12 08:00 |
| S74 | 227 | 204/408.ccls. and (gas SAME (sens\$3 or measur\$3 or detect \$3)) | US-PGPUB; USPAT | OR | ON | 2009/02/12 08:00 |
| S75 | 140 | 204/408.ccls. and (gas SAME (sens\$3 or measur\$3 or detect \$3)) and (reference with (gas or air)) | US-PGPUB; USPAT | OR | ON | 2009/02/12 08:22 |
| S76 | 62 | 204/409.ccls. and (gas SAME (sens\$3 or measur\$3 or detect \$3)) and (reference with (gas or air)) | US-PGPUB; USPAT | OR | ON | 2009/02/12 08:29 |
| S77 | 68 | 204/410.ccls. and (gas SAME (sens\$3 or measur\$3 or detect \$3)) and (reference with (gas or air)) | US-PGPUB; USPAT | OR | ON | 2009/02/12 08:34 |
| S78 | 133 | 204/421.ccls. and (gas SAME (sens\$3 or measur\$3 or detect \$3)) and (reference with (gas or air)) | US-PGPUB; USPAT | OR | ON | 2009/02/12 08:41 |
| S79 | 709 | 204/424.ccls. and (gas SAME (sens\$3 or measur\$3 or detect \$3)) and (reference with (gas or air)) | US-PGPUB; USPAT | OR | ON | 2009/02/12 08:48 |
| S80 | 6 | "4310402" | US-PGPUB; USPAT | OR | ON | 2009/02/12 13:42 |
| S81 | 21 | "5,071,526" | US-PGPUB; USPAT | OR | ON | 2009/02/12 13:49 |
| S82 | 9 | "4400260" | US-PGPUB; USPAT | OR | ON | 2009/02/12 13:55 |
| S83 | 4 | "6435005" | US-PGPUB; USPAT | OR | ON | 2009/02/12 13:58 |
| S84 | 17 | "4897174" | US-PGPUB; USPAT | OR | ON | 2009/02/12 14:13 |
| S85 | 16 | "3871981" | US-PGPUB; USPAT | OR | ON | 2009/02/12 15:15 |
| S86 | 3607 | heater and nichrome and wire | US-PGPUB; USPAT | OR | ON | 2009/02/12 15:16 |
| S87 | 2221 | heater and nichrome and wire and gas | US-PGPUB; USPAT | OR | ON | 2009/02/12 15:16 |
| S88 | 84 | heater and nichrome and wire and gas and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/12 15:16 |
| S89 | 8466 | seal with vacuum and sensor | US-PGPUB; USPAT | OR | ON | 2009/02/13 13:29 |
| S90 | 596 | seal with vacuum and sensor and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/13 13:29 |
| S91 | 46 | seal with vacuum and (sensor near gas) and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/13 13:30 |
| S92 | 819 | seal and (sensor near gas) and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/13 13:33 |

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| S93 | 294 | seal and (sensor near gas) and electrochemical and ("204". clas. or "205". clas.) | US-PGPUB; USPAT | OR | ON | 2009/02/13 13:34 |
| S94 | 70 | seal and (sensor near gas) and electrochemical and ("204". clas. or "205". clas.) and ((range near pressure) or vacuum) | US-PGPUB; USPAT | OR | ON | 2009/02/13 13:36 |
| S95 | 87 | solid adj electrolyte and gas and electrochemical and H+ | US-PGPUB; USPAT | OR | ON | 2009/02/13 14:06 |
| S97 | 9 | membrane and "gas sensor" and electrochemical and H+ | US-PGPUB; USPAT | OR | ON | 2009/02/13 14:20 |
| S98 | 2673 | electrolyt\$ with (organic near3 acid) | US-PGPUB; USPAT | OR | ON | 2009/02/13 14:21 |
| S99 | 984 | electrolyt\$ with (organic near3 acid) and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/13 14:21 |
| S100 | 101 | electrolyt\$ with (organic near3 acid) and electrochemical and (gas with (sens\$3 or detect\$3 or measur\$4)) | US-PGPUB; USPAT | OR | ON | 2009/02/13 14:22 |
| S101 | 474943 | (ELECTROCHEMICAL MEASURING CELL WITH ACID ELECTROLYTE).ti. | EPO; JPO; DERWENT | OR | ON | 2009/02/13 14:38 |
| S102 | 0 | ("ELECTROCHEMICAL MEASURING CELL WITH ACID ELECTROLYTE").ti. | EPO; JPO; DERWENT | OR | ON | 2009/02/13 14:39 |
| S103 | 4977716 | EP "0305961" | EPO; JPO; DERWENT | OR | ON | 2009/02/13 14:39 |
| S104 | 0 | "EP0305961" | EPO; JPO; DERWENT | OR | ON | 2009/02/13 14:39 |
| S105 | 2344 | "acid electrolyte" | EPO; JPO; DERWENT | OR | ON | 2009/02/13 14:39 |
| S106 | 1652819 | "acid electrolyte" and organic acid | EPO; JPO; DERWENT | OR | ON | 2009/02/13 14:39 |
| S107 | 84 | "acid electrolyte" and "organic acid" | EPO; JPO; DERWENT | OR | ON | 2009/02/13 14:40 |
| S108 | 1 | "5650054".pn. and heat | US-PGPUB; USPAT | OR | ON | 2009/02/16 09:32 |
| S109 | 1 | ("5683570").PN. | USPAT; USOCR | OR | OFF | 2009/02/16 12:19 |
| S110 | 2 | ("3598711").PN. | USPAT; USOCR | OR | OFF | 2009/02/16 13:19 |
| S111 | 1 | ("6073478").PN. | USPAT; USOCR | OR | OFF | 2009/02/16 13:52 |
| S112 | 560 | membrane and gas and electrochemical and H+ | US-PGPUB; USPAT | OR | ON | 2009/02/16 13:56 |
| S113 | 177447 | (hydrogen or "hydrogen gas") and (generation or evolve or create) and (metal or metal \$1hydride) | US-PGPUB; USPAT | OR | ON | 2009/02/16 14:14 |

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|------|-------|---|---------------------------|----|----|---------------------|
| S114 | 31383 | (hydrogen or "hydrogen gas") SAME (generation or evolve or create) and (metal or metal \$1hydride) | US-PGPUB; USPAT | OR | ON | 2009/02/16 14:14 |
| S115 | 31383 | (hydrogen or "hydrogen gas") SAME (generation or evolve or create) and (metal or metal \$1hydride) | US-PGPUB; USPAT | OR | ON | 2009/02/16 14:15 |
| S116 | 6559 | (hydrogen or "hydrogen gas") SAME (generation or evolve or create) and (metal or metal \$1hydride) and (H+ or proton or "hydrogen ion") and gas | US-PGPUB; USPAT | OR | ON | 2009/02/16 14:15 |
| S117 | 309 | (hydrogen or "hydrogen gas") SAME (generation or evolve or create) and (metal or metal \$1hydride) and (H+ or proton or "hydrogen ion") and gas near (sens\$3 or detect\$3) | US-PGPUB; USPAT | OR | ON | 2009/02/16 14:16 |
| S118 | 58 | ("3793158" "3864628" "3880722" "4025412" "4171253" "4227984" "4240799" "4369647" "4443793" "4580439" "4584867" "4587104" "4644333" "4718991" "4776203" "4792433" "4836907" "4876115" "4887455" "4893108" "4911892" "4916935" "5019263" "5055266" "5069794" "5104425" "5133857" "5173166" "5186810" "5238729" "5302274" "5331310" "5332424" "5650054").PN. OR ("5841021").URFN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/16 14:30 |
| S119 | 197 | (hydrogen or "hydrogen gas") with (generation or evolve or create) and (metal or metal \$1hydride) and (H+ or proton or "hydrogen ion") and gas near (sens\$3 or detect\$3) | US-PGPUB; USPAT | OR | ON | 2009/02/16 14:35 |
| S120 | 0 | (hydrogen or "hydrogen gas") with (generation or evolve or create) and (metal\$1hydride) and (H+ or proton or "hydrogen ion") and gas near (sens\$3 or detect\$3) | US-PGPUB; USPAT | OR | ON | 2009/02/16 14:38 |
| S121 | 0 | (hydrogen or "hydrogen gas") with (generation or evolve or create) and (metal\$1hydride or (solid near1 hydrated near1 species) or (organic near1 species)) and (H+ or proton or "hydrogen ion") and gas near (sens\$3 or detect\$3) | US-PGPUB; USPAT | OR | ON | 2009/02/16 14:42 |

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|------|-----|---|---------------------------|----|-----|---------------------|
| S122 | 1 | "7,396,443" | US-PGPUB; USPAT | OR | ON | 2009/02/16 14:50 |
| S123 | 5 | ("3567383" "3864232" "4595485" "4882032").PN. OR ("7396443").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/02/16 14:51 |
| S124 | 2 | (metal\$1hydride) and (H+ or proton or "hydrogen ion") and gas near (sens\$3 or detect\$3) | US-PGPUB; USPAT | OR | ON | 2009/02/16 14:53 |
| S125 | 144 | (silver\$1salt or silver\$1chloride or silver\$1halide or silver \$1iodide or silver\$1bromide or Ag\$1Cl or Ag\$1Br or Ag\$1I) same catalyst same electrode | US-PGPUB; USPAT | OR | ON | 2009/02/16 16:02 |
| S126 | 110 | (silver\$1salt or silver\$1chloride or silver\$1halide or silver \$1iodide or silver\$1bromide or Ag\$1Cl or Ag\$1Br or Ag\$1I) same catalyst same electrode and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/16 16:03 |
| S127 | 27 | (silver\$1salt or silver\$1chloride or silver\$1halide or silver \$1iodide or silver\$1bromide or Ag\$1Cl or Ag\$1Br or Ag\$1I) with catalyst same electrode and electrochemical | US-PGPUB; USPAT | OR | ON | 2009/02/16 16:05 |
| S128 | 43 | "ion gauge" and ("204".clas. or "205".clas.) | US-PGPUB; USPAT | OR | ON | 2009/09/17 14:51 |
| S129 | 43 | ("ion gauge" or "hot filament sensor") and ("204".clas. or "205".clas.) | US-PGPUB; USPAT | OR | ON | 2009/09/17 14:54 |
| S130 | 1 | hot near1 filament near1 sensor and ("204".clas. or "205".clas.) | US-PGPUB; USPAT | OR | ON | 2009/09/17 14:54 |
| S131 | 72 | "Residual Gas Analyser" and ("204".clas. or "205".clas.) | US-PGPUB; USPAT | OR | ON | 2009/09/17 14:55 |
| S132 | 5 | ((ROBERT) near2 (GRANT)). INV. and electrolyte | US-PGPUB; USPAT | OR | ON | 2009/09/17 14:58 |
| S133 | 15 | ((ROBERT) near2 (GRANT)). INV. and electrode | US-PGPUB; USPAT | OR | ON | 2009/09/17 15:01 |
| S134 | 10 | ((("0655546") or ("3655546") or ("3576730") or ("4370206") or ("5331310") or ("5522979") or ("5537446") or ("6073478"))). PN. | USPAT; USOCR | OR | OFF | 2009/09/17 15:03 |
| S135 | 117 | Haefele.in. | US-PGPUB; USPAT | OR | ON | 2009/09/22 08:48 |
| S136 | 15 | Haefele.in. and sensor | US-PGPUB; USPAT | OR | ON | 2009/09/22 08:48 |
| S137 | 4 | Haefele.in. and electrode | US-PGPUB; USPAT | OR | ON | 2009/09/22 08:53 |
| S138 | 13 | ("3620931" "4391690" "4543176" "Re28792").PN. OR ("4985126").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/09/22 08:54 |

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| S139 | 1 | Haefele.in. and ("204".clas. or "205".clas.) | US-PGPUB; USPAT | OR | ON | 2009/09/22 08:57 |
| S141 | 1 | "10/757954" | US-PGPUB; USPAT | OR | ON | 2009/11/19 11:11 |
| S142 | 37 | ernstian same hydrogen and @py< "2004" | US-PGPUB; USPAT | OR | ON | 2009/11/19 12:43 |
| S143 | 12 | ernstian and @py< "2004" and "gas sensor" and (liquid with reference) | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:16 |
| S144 | 81 | ((ROBERT) near2 (GRANT)). INV. | EPO; JPO; DERWENT | OR | ON | 2009/11/19 13:54 |
| S145 | 3 | "6355151" | US-PGPUB; USPAT | OR | ON | 2010/04/21 14:17 |
| S146 | 0 | 2003/0121801 | US-PGPUB; USPAT | OR | ON | 2010/04/21 14:33 |
| S147 | 0 | "200300121801" | US-PGPUB; USPAT | OR | ON | 2010/04/21 14:33 |
| S148 | 2 | "20030121801" | US-PGPUB; USPAT | OR | ON | 2010/04/21 14:33 |
| S149 | 13 | "6136170" | US-PGPUB; USPAT | OR | ON | 2010/04/21 14:33 |
| S150 | 1 | "20030062264" | US-PGPUB; USPAT | OR | ON | 2010/04/21 14:45 |
| S151 | 5 | "6153072" | US-PGPUB; USPAT | OR | ON | 2010/04/21 14:47 |
| S152 | 81 | ((ROBERT) near2 (GRANT)). INV. | EPO; JPO; DERWENT | OR | ON | 2010/04/21 14:53 |
| S153 | 8 | ((("3655546") or ("3576730") or ("4370206") or ("5331310") or ("5522979") or ("5527446") or ("6073478"))).PN. | USPAT; USOCR | OR | OFF | 2010/04/21 15:05 |
| S154 | 11529 | "solid electrolyte" and (sens\$3 or detect\$3 or monitor\$3 or measur\$4) and electrode | US-PGPUB; USPAT | OR | ON | 2010/04/21 15:12 |
| S155 | 2729 | "solid electrolyte" and (sens\$3 or detect\$3 or monitor\$3 or measur\$4) and electrode and ("204".clas. or "205".clas.) | US-PGPUB; USPAT | OR | ON | 2010/04/21 15:13 |
| S156 | 2363 | "solid electrolyte" and (sens\$3 or detect\$3 or monitor\$3 or measur\$4) and electrode and ("204".clas. or "205".clas.) and gas and reference | US-PGPUB; USPAT | OR | ON | 2010/04/21 15:13 |
| S157 | 841 | "solid electrolyte" and (sens\$3 or detect\$3 or monitor\$3 or measur\$4) and electrode and ("204".clas. or "205".clas.) and ((gas or environment or space) with reference) and (electrochemical or electro\$1chemical or electro-chemical) | US-PGPUB; USPAT | OR | ON | 2010/04/21 15:14 |

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|------|-------|---|--------------------|----|----|---------------------|
| S158 | 625 | "solid electrolyte" and (sens\$3 or detect\$3 or monitor\$3 or measur\$4) and electrode and ("204".clas. or "205".clas.) and ((gas or environment or space) with reference) and (electrochemical or electro\$1chemical or electro-chemical) and @py<"2005" | US-PGPUB; USPAT | OR | ON | 2010/04/21 15:15 |
| S159 | 351 | "solid electrolyte" and (sens\$3 or detect\$3 or monitor\$3 or measur\$4) and electrode and ("204".clas. or "205".clas.) and ((gas or environment or space) with reference) and (electrochemical or electro\$1chemical or electro-chemical) and @py<"2005" and heater | US-PGPUB; USPAT | OR | ON | 2010/04/21 15:15 |
| S160 | 96 | "solid electrolyte" and (sens\$3 or detect\$3 or monitor\$3 or measur\$4) and electrode and ("204".clas. or "205".clas.) and ((gas or environment or space) with reference) and (electrochemical or electro\$1chemical or electro-chemical) and @py<"2005" and heater and (thermocouple or "temperature sensor" or "temperature detector" or "temperature monitor") | US-PGPUB; USPAT | OR | ON | 2010/04/21 15:28 |
| S161 | 34 | "solid electrolyte" and (sens\$3 or detect\$3 or monitor\$3 or measur\$4) and electrode and ("204".clas. or "205".clas.) and ((gas or environment or space) with reference) and (electrochemical or electro\$1chemical or electro-chemical) and @py<"2005" and heater and (thermocouple) | US-PGPUB; USPAT | OR | ON | 2010/04/21 15:39 |
| S162 | 9 | "vacuum feed-through connector" | US-PGPUB; USPAT | OR | ON | 2010/04/21 16:15 |
| S163 | 60981 | "204".clas. or "205".clas. and "solid electrolyte" and electrode | US-PGPUB; USPAT | OR | ON | 2010/04/21 16:47 |
| S164 | 60867 | "204".clas. or "205".clas. and "solid electrolyte" and electrode and @py<"2005" | US-PGPUB; USPAT | OR | ON | 2010/04/21 16:47 |
| S165 | 2227 | ("204".clas. or "205".clas.) and "solid electrolyte" and electrode and @py<"2005" | US-PGPUB; USPAT | OR | ON | 2010/04/21 16:47 |
| S166 | 1879 | ("204".clas. or "205".clas.) and "solid electrolyte" and electrode and @py<"2005" and (connection or contact) | US-PGPUB; USPAT | OR | ON | 2010/04/21 16:48 |

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| S167 | 1925 | ("204".clas. or "205".clas.) and "solid electrolyte" and electrode and @py<"2005" and (connection or contact or path) | US-PGPUB; USPAT | OR | ON | 2010/04/21 16:48 |
| S168 | 2056 | ("204".clas. or "205".clas.) and "solid electrolyte" and electrode and @py<"2004" | US-PGPUB; USPAT | OR | ON | 2010/04/21 16:48 |
| S169 | 1864 | ("204".clas. or "205".clas.) and "solid electrolyte" and electrode and @py<"2004" and gas | US-PGPUB; USPAT | OR | ON | 2010/04/21 16:50 |
| S170 | 1 | "20030092191" | US-PGPUB; USPAT | OR | ON | 2010/04/22 09:42 |
| S171 | 23 | sensor with sensitivity and (vacuum or (below with normal near pressure)) and detect\$3 and (oxygen or hydrocarbon or (water or "h.2.o")) and "semiconductor manufacture" | US-PGPUB; USPAT | OR | ON | 2010/04/22 11:46 |
| S172 | 13641 | electrode and electrolyte and (gas with (sens\$3 or detect\$3 or monitor\$3 or measur\$4 or probe)) | US-PGPUB; USPAT | OR | ON | 2010/04/22 11:51 |
| S173 | 4620 | electrode and electrolyte and (gas with (sens\$3 or detect\$3 or monitor\$3 or measur\$4 or probe)) and ("204".clas. or "205".clas.) | US-PGPUB; USPAT | OR | ON | 2010/04/22 11:51 |
| S174 | 3360 | electrode and electrolyte and (gas with (sens\$3 or detect\$3 or monitor\$3 or measur\$4 or probe)) and ("204".clas. or "205".clas.) and @py<"2005" | US-PGPUB; USPAT | OR | ON | 2010/04/22 11:51 |
| S175 | 1744 | electrode and electrolyte and (gas with (sens\$3 or detect\$3 or monitor\$3 or measur\$4 or probe)) and ("204".clas. or "205".clas.) and @py<"2005" and liquid | US-PGPUB; USPAT | OR | ON | 2010/04/22 11:52 |
| S176 | 265 | electrode and electrolyte and (gas with (sens\$3 or detect\$3 or monitor\$3 or measur\$4 or probe)) and ("204".clas. or "205".clas.) and @py<"2005" and (liquid with reference) | US-PGPUB; USPAT | OR | ON | 2010/04/22 11:52 |
| S177 | 137 | electrode and electrolyte and (gas near2 (sens\$3 or detect\$3 or monitor\$3 or measur\$4 or probe)) and ("204".clas. or "205".clas.) and @py<"2005" and (liquid with reference) | US-PGPUB; USPAT | OR | ON | 2010/04/22 11:52 |
| S178 | 46 | ("3859191" "4013522" "4595486" "4666565" "4820386" "4839020" "5344546" "Re31915").PN. OR ("5527446").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/04/22 12:11 |

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|------|------|--|-----------------------------|----|----|---------------------|
| S179 | 1805 | ("204".clas. or "205".clas.) and nafion and gas | US-PGPUB; USPAT | OR | ON | 2010/04/29 10:57 |
| S180 | 265 | ("204".clas. or "205".clas.) and nafion and ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) | US-PGPUB; USPAT | OR | ON | 2010/04/29 10:58 |
| S181 | 151 | ("204".clas. or "205".clas.) and nafion and ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) and @py<"2005" | US-PGPUB; USPAT | OR | ON | 2010/04/29 10:59 |
| S182 | 25 | ("204".clas. or "205".clas.) and nafion and ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) and @py<"2005" and heater | US-PGPUB; USPAT | OR | ON | 2010/04/29 10:59 |
| S183 | 1 | nafion and ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) and @py<"2005" and heater | USOCR; EPO; JPO; DERWENT | OR | ON | 2010/04/29 11:10 |
| S184 | 1 | nafion and ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) and @py<"2006" and heater | USOCR; EPO; JPO; DERWENT | OR | ON | 2010/04/29 11:11 |
| S185 | 0 | "liquid electrolyte" and ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) and @py<"2006" and heater | USOCR; EPO; JPO; DERWENT | OR | ON | 2010/04/29 11:11 |
| S186 | 3635 | ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) and @py<"2006" and heater | USOCR; EPO; JPO; DERWENT | OR | ON | 2010/04/29 11:11 |
| S187 | 232 | ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) and @py<"2006" and heater and liquid | USOCR; EPO; JPO; DERWENT | OR | ON | 2010/04/29 11:12 |
| S188 | 261 | ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) and @py<"2006" and heater and (liquid or aqueous) | USOCR; EPO; JPO; DERWENT | OR | ON | 2010/04/29 11:33 |

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| S189 | 345 | ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) and @py<"2006" and heater and (liquid or aqueous or fluid) | USOCR; EPO; JPO; DERWENT | OR | ON | 2010/04/29 11:33 |
| S190 | 12 | ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) and @py<"2006" and heater and (liquid or aqueous or fluid) and ("204". clas. or "205". clas.) | USOCR; EPO; JPO; DERWENT | OR | ON | 2010/04/29 11:34 |
| S191 | 393 | ((gas or "carbon monoxide" or "carbon dioxide" or hydrogen) near2 (sensor or detector or monitor)) and @py<"2006" and heater and (liquid or aqueous or fluid) and ("204". clas. or "205". clas.) | US-PGPUB; USPAT | OR | ON | 2010/04/29 11:36 |
| S192 | 233 | prohaska.in. | US-PGPUB; USPAT | OR | ON | 2010/04/29 13:27 |
| S193 | 78 | prohaska.in. and sensor | US-PGPUB; USPAT | OR | ON | 2010/04/29 13:27 |
| S194 | 38 | prohaska.in. and sensor and "204". clas. | US-PGPUB; USPAT | OR | ON | 2010/04/29 13:27 |
| S195 | 4 | prohaska.in. and sensor and "204". clas. and heater | US-PGPUB; USPAT | OR | ON | 2010/04/29 13:34 |
| S196 | 0 | 2006/0180466 | US-PGPUB; USPAT | OR | ON | 2010/04/29 14:03 |
| S197 | 1 | "20060180466" | US-PGPUB; USPAT | OR | ON | 2010/04/29 14:03 |
| S198 | 2 | "6592732" | US-PGPUB; USPAT | OR | ON | 2010/04/29 14:08 |
| S199 | 96 | ("204". clas. or "205". clas.) and "solid electrolyte" same ("hydrogen ion" or "H.sup.+") | US-PGPUB; USPAT | OR | ON | 2010/04/29 14:55 |
| S200 | 66 | ("204". clas. or "205". clas.) and "solid electrolyte" same ("hydrogen ion" or "H.sup.+") and @py<"2005" | US-PGPUB; USPAT | OR | ON | 2010/04/29 14:55 |
| S201 | 93 | ("204". clas. or "205". clas.) and "solid electrolyte" and (("Sr" or strontium) with ("Ce" or cerium)) and @py<"2005" | US-PGPUB; USPAT | OR | ON | 2010/04/29 15:03 |
| S202 | 58 | ("204". clas. or "205". clas.) and "solid electrolyte" and (("Sr" or strontium) with ("Ce" or cerium)) and @py<"2005" and ("yb" or ytterbium) | US-PGPUB; USPAT | OR | ON | 2010/04/29 15:04 |
| S203 | 9 | ("5387330" "6235417" "6332964"). PN. OR ("6517693"). URP.N. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/04/29 15:25 |

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| S204 | 20 | ("204".clas. or "205".clas.) and "solid electrolyte" and ("Sr" or strontium) with ("Ce" or cerium)) and @py<"2005" and ("yb" or ytterbium) and sensor | US-PGPUB; USPAT | OR | ON | 2010/04/29 15:30 |
| S205 | 12 | "4718992" | US-PGPUB; USPAT | OR | ON | 2010/04/29 16:17 |
| S206 | 287 | yamazoe.in. | US-PGPUB; USPAT | OR | ON | 2010/04/29 16:19 |
| S207 | 73 | yamazoe.in. and sensor | US-PGPUB; USPAT | OR | ON | 2010/04/29 16:19 |
| S208 | 1803 | electrochemical with sensor and heater | US-PGPUB; USPAT | OR | ON | 2010/05/04 10:44 |
| S209 | 773 | electrochemical with sensor and heater and ("204".clas. or "205".clas.) | US-PGPUB; USPAT | OR | ON | 2010/05/04 10:44 |
| S210 | 663 | electrochemical with sensor and heater and ("204".clas. or "205".clas.) and electrolyte | US-PGPUB; USPAT | OR | ON | 2010/05/04 10:45 |
| S211 | 484 | electrochemical with sensor and heater and ("204".clas. or "205".clas.) and electrolyte and @py<"2006" | US-PGPUB; USPAT | OR | ON | 2010/05/04 10:45 |
| S212 | 53 | electrochemical with sensor and heater and ("204".clas. or "205".clas.) and (electrolyte with liquid) and @py<"2006" | US-PGPUB; USPAT | OR | ON | 2010/05/04 10:45 |
| S213 | 264 | electrochemical with sensor and heat\$3 and ("204".clas. or "205".clas.) and (electrolyte with liquid) and @py<"2006" | US-PGPUB; USPAT | OR | ON | 2010/05/04 10:55 |
| S214 | 211 | S213 not S212 | US-PGPUB; USPAT | OR | ON | 2010/05/04 10:55 |
| S215 | 3 | ((("3871981") or ("4182666") or ("5897766"))).PN. | US-PGPUB; USPAT | OR | OFF | 2010/05/04 11:11 |
| S216 | 581 | ("204".clas. or "205".clas.) and (heat\$3 with reference) and electrochemical | US-PGPUB; USPAT | OR | ON | 2010/05/04 13:44 |
| S217 | 557 | ("204".clas. or "205".clas.) and (heat\$3 with reference) and electrochemical and electrode | US-PGPUB; USPAT | OR | ON | 2010/05/04 13:44 |
| S218 | 397 | ("204".clas. or "205".clas.) and (heat\$3 with reference) and electrochemical and electrode and @py<"2005" | US-PGPUB; USPAT | OR | ON | 2010/05/04 13:44 |
| S219 | 2 | ("204".clas. or "205".clas.) and (heat\$3 with reference with reason) and electrochemical and electrode and @py<"2005" | US-PGPUB; USPAT | OR | ON | 2010/05/04 13:44 |
| S220 | 397 | ("204".clas. or "205".clas.) and (heat\$3 with reference) and electrochemical and electrode and @py<"2005" | US-PGPUB; USPAT | OR | ON | 2010/05/04 13:46 |

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| S221 | 59 | ("204".clas. or "205".clas.) and (heat\$3 with reference) and electrochemical and electrode and @py<"2005" and (thimble or lambda) | US-PGPUB; USPAT | OR | ON | 2010/05/04 13:47 |
| S222 | 22 | ("3686609" "3844920" "4175019" "4540479" "4578174").PN. OR ("4824550").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/05/04 13:55 |
| S223 | 0 | ("204".clas. or "205".clas.) and (heat\$3 with reference) and electrochemical and electrode and @py<"2005" and (thimble or lambda) | USOCR | OR | ON | 2010/05/04 14:00 |
| S224 | 57 | ("204".clas. or "205".clas.) and (heat\$3 with reference) and electrochemical and electrode and @py<"2005" | USOCR | OR | ON | 2010/05/04 14:00 |
| S225 | 45 | ("204".clas. or "205".clas.) and "nernst equation" and electrochemical and electrode and @py<"2005" and (thimble or lambda) | US-PGPUB; USPAT | OR | ON | 2010/05/04 15:23 |
| S226 | 5 | "6153072" | US-PGPUB; USPAT | OR | ON | 2010/05/04 16:23 |
| S227 | 30 | "4510036" | US-PGPUB; USPAT | OR | ON | 2010/05/05 10:09 |

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